



# User Manual



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## **Our Mission**

Here at FTR Systems, we are committed to excellence in providing the highest level of customer service. We believe that maintaining effective policies, a positive attitude, and providing swift responses will result in a valuable, long-term relationship between our company and the customer.

## **To Our Customers**

Thank you for purchasing the Mogobike! We hope that our product will meet and exceed all of your expectations. As a valued customer, your comments and opinions are very important to us. If you have any questions, concerns or comments, we hope you will bring them to our attention.

The Mogobike smart design uses a patented balanced-controlled dual motor, making the Mogobike a perfect “last mile” solution to your everyday commute.

The Mogobike was built for durability while also providing flexibility on the go. Whether on a bus, train, boat or RV, the Mogobike folds into a compact size for easy storage.

This user manual contains all essential information for the user to make full use of the Mogobike. The manual includes descriptions of the system functions and capabilities, and step-by-step startup and use.

## **I. THE CONTROLS**

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### **Display Monitor**

The Mogobike comes equipped with a backlight monitor for speed, trip distance, clock, and battery life.

The distance counter located at the top right of the monitor acts as a mileage/kilometer countdown, estimating how much distance is available based on remaining battery life. After a rider's first run, the Mogobike creates a baseline for the rider, as remaining distance depends on the weight and riding style of the rider. The distance will be set accordingly on the next run based on the previous baseline.

Battery indicator is expressed as both a percentage at the top-left corner and as a graph across the width of the monitor.

### **Adjusting Monitor Settings**

The two buttons on the monitor are used to change what displays on the monitor. A user can toggle between and reset the trip meter, clock, or change from mileage to kilometers.

The left button is used to activate the settings mode for the monitor. Click through on the right button to enter the various settings for adjusting the display.

### **Change the clock**

Hold down the left button to adjust the clock. Once activated, the blue headlamp light on the display will light up. Click the right button to toggle between a 24 or 12 hour clock. Hold down the left button to enter the clock settings. Adjust the hour and minutes with the right button. When the clock is adjusted to your preference, the monitor will reset automatically with the updated settings after a brief pause.

### **Reset the trip meter**

Toggle through display modes by pressing the right button. When the trip meter displays on the monitor, hold down the left button to reset the counter to zero.

### **Change to mileage or kilometers**

Toggle through display modes by pressing the right button. When the odometer displays on the monitor, hold down the left button to toggle between mileage or kilometers.

# I. THE CONTROLS

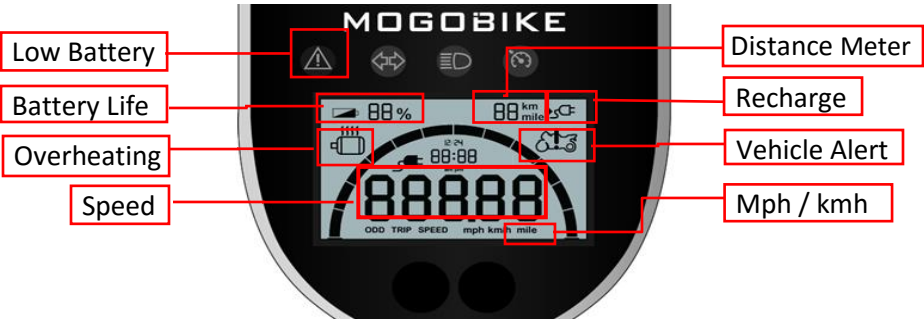
## Error and Diagnostic Information

The Mogobike provides some error readings back to the rider in case the bike encounters a problem.

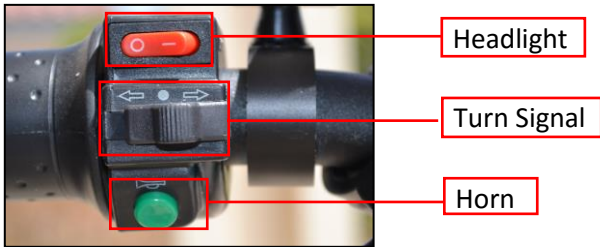
If the Mogobike emits an error, the "Vehicle Alert" icon will display on the monitor. In the case of an error, contact the Mogobike support department.

If the overheating icon displays, this can result from a number of components, such as motors, headlamp or control board. In many cases, it will typically be the motors. The Mogobike comes with a built in shut off function, so that when the vehicle overheats, it will shut down in order to protect itself from incurring damage.

*Note about driving styles. Erratic driving, such as quick starts and stops can be a factor in overheating.*



## Left Hand Controls



**Headlight**

The headlight meets industry standards for DOT regulations.

## Turn Signals

The Mogobike is a fully equipped street machine, with lights, turn signals and brake lamp. Move the blinker control switch left or right to initiate the turn signals. The unit will emit a clicking sound to indicate the blinker signal is initiated. Slide it back to the middle (neutral) position to turn the signal off.

## II. UNIT OPERATION

### Folding the Mogobike

Folding the Mogobike is a quick and easy operation, but one that takes a little practice in the beginning. To shorten the learning curve, this section will walk users through folding their Mogobike.



Take notice of the position of the locking hinges. There are three hinges that run along the frame and one on the steering column. These hinges are made of tempered stainless steel. The latch that runs along the top of the hinge is fastened by a hard plastic clip.

Position your thumb on the clip release Tab and push it away from the latch, releasing the latch in the process.



Run down the length of the frame, releasing the three hinges and rotating the latches upwards to unlock the hinges.

With the hinges now unlocked, you will notice that the Mogobike can easily pivot at each break point on the frame.



Rotate the foot pad next to you upwards. The pad will stay in place in a vertical position.

## II. UNIT OPERATION

To begin folding the unit, from the left side of the unit, position your hand on the rear of the seat.



Pull the seat towards you and the two rear hinges will pivot until they come together as shown.



Rotate the opposite foot pad until it rests in place in a vertical position.



To fold the front half of the Mogobike, reach over the scooter and grab the steering column



Rotate the steering column towards the inside of the battery box until it aligns with the rear wheel.



See next section, "Folding the Handlebars"





## II. UNIT OPERATION

### Folding the Handlebars

Rotate the mirrors 180 degrees until the narrow end of the mirror is pointing towards the unit.



Push the mirror downwards and fold it against the grip.



Release the handlebar pressure lock to expose the handlebar push pins.



Press the pushpin in until it seats below the pushpin hole and extract the handlebar.



*Note: for power assist, users will want to make sure that the right-hand, throttle side of the handlebar remains in the riding position.*

Both sides of the handlebar fit into the folding mount in different ways.



## II. UNIT OPERATION

When securing the left, non-throttle side, clip the handlebar into place using the small hex fastener bolt that runs through the handlebar.



For the throttle side clip, use the push pin to secure the handlebar.



Position your thumb on the clip to release tab.



Push the clip release tab away from the latch.



Mogobike, completely folded and ready for storage.



This will release the latch in the process.



## II. UNIT OPERATION

### Unlocking and Unfolding

The Mogobike uses a unique hinge locking system to hold the unit together when folded. To unlock and unfold the unit, begin at the rear of the unit.



With the toe of your shoe, depress the front of the lock. This will release the locking pin.



Rotate the front portion of the unit towards the front of the bike as shown in picture.

Bring the front and rear tires together as demonstrated. This disengages both the middle and front locks, completely unlocking the unit as a result.



Pressure is applied to the interior locks, releasing both at the same time.



Move the rear swingarm to its starting position and lock the hinge.

Finish unfolding the unit by locking the middle and front hinges as shown below.

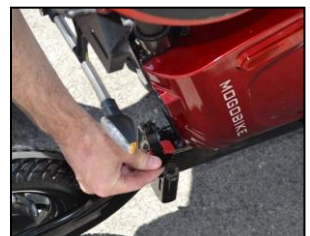
**Front**



**Middle**



**Rear**



## II. UNIT OPERATION

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### Precautions

Run through a simple safety check prior to running the vehicle:

- Check air pressure.
- Check folding locks and make sure they are fastened securely.
- Adjust seat height for the user.
- Not intended for highway use.
- Do not ride on sidewalks and areas intended for walking traffic only.
- Wear a helmet and eye protection.
- Make sure the battery is sufficiently charged.

### Turning on the Mogobike

The ignition switch is located under the seat on the left-hand side. Turn the key clockwise to turn the unit on.

### Engaging the Motors — The Green Multi-Function Button

The Mogobike includes a safety feature. One of the problems with electric vehicles is the lack of an audible cue that the vehicle is on.

The green multi-function button on the throttle bar acts as an initialization switch that engages the motor.

When the Mogobike is first turned on, the motors remain in a neutral state. Press the green button and the user has a five second window to engage the throttle. When the user comes to a full stop or parks the vehicle, the motors will return to a neutral state after three seconds.



## II. UNIT OPERATION

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### Setting the Cruise Control

Riders can set the cruise control when in transit. Simply press the green multi-function button and the Mogobike will set the speed.

To disengage the cruise control, press the green button again, adjust the throttle or apply the brake.

### Throttle Control and Braking

Mogobike includes regenerative braking for added battery support. Regenerative braking provides two benefits—it reverses the direction of the motors and sends that energy back to the battery to increase battery life, and offers a quick way to slow down.

When riding, simply release the throttle and the motors will quickly act to slow the unit. When using the brake, use a smooth motion to apply the front-brake's stopping power.

### Power Assist Features

- The user can move the Mogobike into interior spaces when it's partially folded and still control the unit under power.
- Power assist offers three speeds to adjust to a user's pace or on uneven terrain or inclines.
- The walking pace of the Mogobike in power assist can be cycled through by using the multi-function control button.
- The user controls the amount of acceleration through use of the throttle.

*Note: the power assist function is not intended for riding. Do not sit or ride on the unit when using power assist.*

### Initiating and Using Power Assist

The power assist function is initiated when the unit is partially folded. With the lower portions of the frame locked, and the front and rear wheels in tandem, engage the power assist function by following these steps.

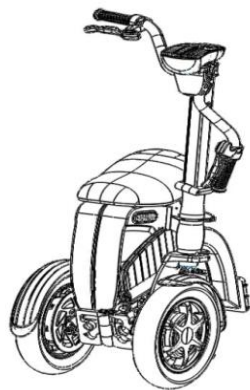


## II. UNIT OPERATION

To begin, make sure that the unit is off and that the throttle-side handlebar is in an upright position.

Both front and rear portions of the frame should be locked before continuing.

Turn on the unit. When the Mogobike is partially folded and turned on, it will display the prompt "Fold" along with a number on the monitor. The unit is now in power assist mode as indicated by the monitor. The number indicates what speed level the unit is at when initiated. In power assist, the Mogobike gives the user three speed levels of walking pace.



Give the Mogobike a light tug to initiate power assist. Use the throttle to control speed.

Standing on the right side of the unit at the throttle, grasp the throttle grip and angle the Mogobike downwards like a piece of roller luggage.



The speed level will display on the monitor. Cycle through to return to the initial speed setting.

Cycle through the three levels of speed by hitting the green multi-function button.



### **III. MAINTENANCE AND CARE**

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#### **Maintenance and Care**

It is important to properly maintain your Mogobike to insure consistent, long-lasting performance. Keep the unit clean of dirt and debris that collects on the unit over time. Use a soft cloth to wipe down the frame and plastics.

#### **Charging the Unit and Battery Care**

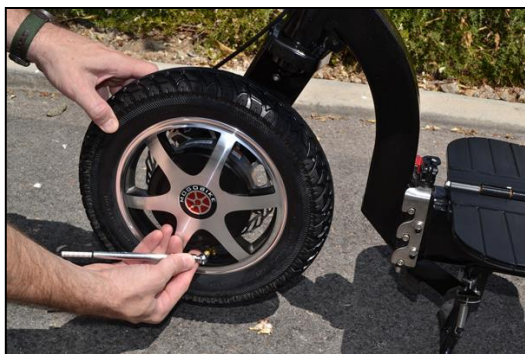
Only use the designated battery charger that comes with your unit. Make sure all connections on the charger are properly connected before plugging the charger into the Mogobike and/or wall socket. The Mogobike charger plugs into a standard 120v wall socket.

A note about battery maintenance: consistent charging will help to maintain and extend the life of your Lithium battery. For best results, don't let the charge exceed less than 25 percent of a charge before recharging and avoid completely discharging the battery if possible.

As a safety feature, the unit will not turn on once it is plugged in to the charger.

#### **Checking Tire Air Pressure**

Maintaining recommended air pressure for the tires will provide better and safer performance when using the Mogobike. Check the tire pressure with a pressure gauge and add air as needed. Refer to the specifications page in this manual for the proper PSI rating.



### **III. MAINTENANCE AND CARE**

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#### **Checking Fasteners**

Perform regular checks on all the fasteners on the Mogobike. These include any screws, nuts and bolts that might come loose over time.

Check the hinges and plastic locking clips. Evaluate the locking strength of the latch in the clip and tighten if necessary.

#### **Offseason Maintenance**

Store the Mogobike in a dry place that is not subject to large amounts of moisture or humidity.

Do not store the Mogobike outside during incidental weather.

The Mogobike uses electronic components that can incur damage if exposed to these elements for long periods of time.

Keep the battery charged.

#### **Checking the Brake**

A proper functioning brake is essential when riding. Pull the brake lever and push the vehicle forward.

Does the brake lever engage the pad against the brake disc? If there is movement when the brake lever is engaged, the brake may need to be adjusted.

See the Mogobike website for instructions about adjusting the brake.





## IV. SPECIFICATIONS

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Expanded size	57" L x 24" W x 38" H
Folded size	18" L x 14" W x 25" H
Axial distance	44"
Wheel size	12"
Maximum speed load weight	20 mph on flat surfaces at a 200 lb
Range	20 miles at a 200 lb load weight
Battery	Li-ion 48V 10AH
Rated Motor Power	500W (x2)
Drive train	Direct drive
Maximum Loading	250 lbs
Weight	50 lbs
Brake	Mechanical Disc Brake (Front) and Electronic Braking
Frame	Aluminum alloy
Rim	Aluminum alloy
Tire Pressure	40 psi
Certificate	E-mark 2002/24/EC(EU) and FMVSS (US)

VIN Number: \_\_\_\_\_







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## **Customer Support Contact Information**

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